

Docket No. 256740US2PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Takunori TAIRA, et al.

SERIAL NO: 10/502,055

GAU:

FILED: July 30, 2004

EXAMINER:

FOR: OPTICAL DEVICE

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. In accordance with discussions on August 4, 2004 with Mr. Nicholas P. Godici, Commissioner for Patents, it is no longer required to submit copies of cited pending applications. A modification of the Rules will be published soon in the Official Gazette. Cited issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 256740US2PCT		SERIAL NO. 10/502,055	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Takunori TAIRA, et al.			
				FILING DATE July 30, 2004		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	5 851 284	12/22/98	Shigeo ISHIBASHI, et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AB	5-330991	12/14/93	JP(with English abstract)			NO
	AC	2001-235775	08/31/01	JP(with English abstract)			NO
	AD	8-220301	08/30/96	JP(with English abstract)			NO
	AE						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AF	Ichiro SHOJI, et al., "(100) Cut no YAG Kessho ni yoru Netsufucu Kussetsu Yuki Depolarization no Teigen", Dai 62 Kai Extended abstracts; the Japan Society of Applied Physics, 11 September, 2001 (11.09.01), vol. 3, 12a-ZK-3, page 799					
	AG	Ichiro SHOJI, et al., "(110) Cut no YAG Kessho ni yoru Netsufucu Kussetsu Yuki Depolarization no Teigen", Dai 49 Kai Oyo Butsurigaku Kankei Rengo Koenkai Koen Yokoshu, 27 March, 2002 (27.03.02), vol. 3, 30p-ZG-6, page 1058					
	AH	Ichiro SHOJI et al., "Intrinsic reduction of the depolarization loss in solid-state lasers by use of a (110)-cut Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> crystal", APPLIED PHYSICS LETTERS, vol. 80, no. 17, pages 3048-3050 04/29/02					
	AI	Ichiro SHOJI, et al., "Thermal-birefringence-induced depolarization in Nd: YAG ceramics", OPTICS LETTERS, vol. 27, no. 4, pages 234-236 02/15/02					
	AJ	S. ISHIBASHI, et al., "Cr, Ca:Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> laser crystal grown by the laser-heated pedestal growth method", JOURNAL OF CRYSTAL GROWTH, vol. 183, pages 614-621 1998					
	AK	Yang Peizhi, et al., "The growth defects in Czochralski-grown Yb: YAG crystal", JOURNAL OF CRYSTAL GROWTH, vol. 218, pages 87-92 2000					
	AL	Walter KOECHNER, et al., "Effect of birefringence on the performance of linearly polarized YAG: Nd lasers", IEEE JOURNAL OF QUANTUM ELECTRONICS, vol. qe-6, no. 9, pages 557-566 1970					
	AM	W. KOECHNER, et al., "Birefringence of YAG: Nd laser rods as a function of growth direction", JOURNAL OF THE OPTICAL SOCIETY OF AMERICA, vol. 61, no. 6, pages 758-766 1971					
	AN	Vladimir PARFENOV, et al., "Numerical investigation of thermally induced birefringence in optical elements of solid-state lasers", APPLIED OPTICS, vol. 32, no. 27, pages 5243-5255 09/20/93					
	AO	Ichiro SHOJI, et al., "Thermal birefringence in Nd: YAG ceramics", TRENDS IN OPTICS AND PHOTONICS vol. 50, ADVANCED SOLID-STATE LASERS, pages 273-278 2001					
	AP	L. N SOMS, et al., "Problem of depolarization of linearly polarized light by a YAG: Nd laser-active element under thermally induced birefringence conditions", SOVIET JOURNAL OF QUANTUM ELECTRONICS, vol. 10, no. 3, pages 350-351 1980					
	AQ						
	AR						<input type="checkbox"/> Additional References sheet(s) attached
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

**Rec'd PCT/PTO 27 SEP 2004**

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STATEMENT OF RELEVANCY

- 1) References AA, AB & AF-AP have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
- 2) References AC-AD have been cited in the corresponding Written Opinion. A copy of these references is being submitted herewith.
- 3) Reference \_\_\_\_\_ is discussed in the specification. A copy of these references is being submitted here with.
- 4) References \_\_\_\_ are additional prior art known to Applicant. A copy of these references is being submitted herewith.